| | - - <u>(1881-2007)</u> - | SECRET | REPORT | |
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| Czechoslov | al List of Electronic Tubes Used in | | DATE DISTR. 17 FEB.1954 NO. OF PAGES 6 | |
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| | Partial Li Czechoslov | CZECNOSIOVAKIA FORMATION UIRED | Czechoslovakia Partial List of Electronic Tubes Used in Czechoslovakia CORMATION | Czechoslovakia Partial List of Electronic Tubes Used in Czechoslovakia FORMATION CZECHOSLOVAKIA REFERENCES: |

1. Below is a list of electronic tubes of all kinds which were produced in Czechoslovakia or imported into Czechoslovakia before 1945 and therefore were on stock there at the end of World War II, and also of tubes which were imported into Czechoslovakia after 1945. The import of tubes, in general, slowed down after 1948 and almost ceased by 1950. 1.

Standard Receiver Electronic Tubes

50X1

2. Old receiver electronic tubes:

These tubes were produced in Czechoslovakia or imported there until 1945. They carried a so-called old designation which conformed to the old Philips designation. These tubes were used for older radio receivers of Czechoslovak production which were mainly produced before World War II, in smaller quantities during the War, and not at all after 1945. These tubes were difficult to obtain after 1945. There were three groups of this type of tubes:

a. Standard receiving tubes:

| | Type | Price per tube 2. |
|----|--------|-------------------|
| 1. | A 409 | 82.10 crowns |
| 2. | A 410N | 82.10 " |
| 3. | A 415 | 80.50 " |
| 4. | A 425 | 75.20 " |
| 5. | A 441N | 156.80 " |

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accorde profit Market

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| Ty pe | • | Price per | tube |
|--|---|--|--|
| 6. B 224526694 \$K 88K 8 8 22456694 \$K 88 8 44424 \$18 8 8 8 8 8 44424 \$19 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 | | 165.20 133.20 97.30 130.50 140.20 94.50 108.40 108.40 108.40 108.40 108.40 108.40 108.40 108.40 108.40 108.40 108.40 108.40 109.10 108.40 109.10 109. | crowns "" "" "" "" "" "" "" "" "" |
| 41. E 406N 42. E 408N 43. E 409 44. E 424N 45. E 438 | | 379.50 227.40 199.70 122.20 217.70 | п п п п |
| 64. F 410 65. F 443N | | 784.80 862.30 | H |

SECRET-350X1

b. Standard rectifiers:

66. 505 67. 506 68. 1018 69. 1201 70. 1560 71. 1561 72. 1801 73. 1802 74. 1803 75. 1815 76. 1817 77. 1831 78. 1832

c. Standard regulators of old design:

79. 1904 80. 1910 81. 1911 82. 1915 83. 1926 84. 1927 85. 1928

3. Tubes with supporting base imported into Czechoslovakia up to 1945 or produced in Czechoslovakia up to 1945, and, in a few cases, until 1948. They were used for radio receivers produced in Czechoslovakia from 1940 until the end of 1945.

a. Receivers:

| (g^{\prime}_{i}) | Type | | Price per | tube |
|--|--|--|--|----------------------------|
| 86. 87. 88. 89. | AB 1 AB 2 ABC 1 AC 2 AH 1 | | 80.50 72.40 163.50 130.50 203.90 | crowns |
| 91. 92. 93. 94. 95. | AK 1 AK 2 AL 1 AL 2 AM 1 AM 2 | | 263.30 243.90 192.80 239.90 152.60 177.50 | 11 11 11 11 |
| 97. 98. 99. 100. | CB 1 CB 2 CBC 1 CC 2 CH 1 | | 96.00 87.70 201.10 130.50 219.10 | 11 11 11 |
| 102. 103. 104. 105. | CK 1 CK 3 CL 1 CL 2 D 105 D 404 | | 267.50 286.90 230.00 249.40 255.50 227.40 | 11 11 11 11 11 |
| 107. 108. 109. 110. 111. 112. 113. | EAB 1 EB 4 EB 11 EBF 2 EC 2 ECH 2 | | 102.90 93.20 93.20 196.90 292.10 243.90 | 11 11 11 11 |

SECRET

50X1

| Type | Price per | tube |
|--|---|---|
| 114. EF 1 115. EF 5 116. EF 8 117. EF 13 118. VC 1 119. VL 1 120. VY 1 121. EH 2 122. EK 2 123. EL 2 124. EK 3 125. EM 1 126. EM 2 127. EZ 2 128. EZ 3 129. AF 2 130. CBL 1 131. CCH 1 132. CF 3 133. CF 7 134. CL 4 | ## Price per 483.50 163.70 183.00 183.00 152.60 242.70 219.10 243.90 223.30 250.90 160.50 187.30 104.70 125.20 152.60 262.00 267.50 201.10 239.90 | Crowns H H H H H H H H H H H H H |
| 135. CY 1 136. CY 2 | 92.90 11 9. 30 | 11 28 |

b. Modulators

137. VY 2

c. So-called "K" tubes.

These tubes were equipped with two-volt heater and were usually used for receivers supplied with storage battery current. These tubes were imported into Czechoslovakia until 1945 and some of them, probably, were also produced in Czechoslovakia up to 1945.

| Type | Price pe | r tube |
|--|--|--|
| 137. KB 2 138. KBC 1 139. KC 1 140. KC 3 141. KC 4 142. KCH 1 143. KDD 1 144. KF 1 145. KF 2 146. KF 3 147. KF 4 148. KH 1 149. KK 2 150. KL 1 151. KL 2 152. KL 4 153. KL 5 | 73.90 183.00 77.90 112.60 133.20 309.00 234.30 170.70 183.00 183.00 202.40 309.00 163.70 210.70 210.70 | 11 11 11 11 11 11 11 11 11 11 11 11 11 |
| | | |

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d. Current regulators of later design:

These tubes were imported into Czechoslovakia by Philips until 1945. Some of them were also probably produced in Czechoslovakia up to 1945.

154. C 1 155. C 2 156. C 3 157. C 6 159. C 7 160. C 8 161. C 9

C 10

162.

163.

124°

Battery Electronic Tubes -- Also Called "D" Tubes

4. These tubes were used for portable receivers. They were imported into Czechoslovakia, mainly from Philips, mostly between 1945 and 1948, and in a few cases after 1948. They were difficult to obtain on the open market until 1948, and after this date it was almost impossible to obtain them. This type of tube was not produced in Czechoslovakia at all. The only battery electronic tube produced in Czechoslovakia was DDC 25, put into trial production in the then Philips AS, Prague IX (Hloubetin), at the end of World War II; however, mass production of this tube was never begun.

| Type | Price per tube |
|------------------|----------------|
| DAC 21 DAF 11 | 180.30 crowns |
| DBC 21 | 110.70 " |
| | 201.10 " |
| DC 11 | 140.20 " |
| DCH 11 | 309.00 " |
| DCH 21 | 339.40 " |
| DDD 11 | 234.30 " |
| DF 11 | 183.00 ". |
| DF 21 | 180.30 " |
| DF 22 | 201.10 " |
| DK 21 | 339.40 " |
| DL 11 | 210.70 " |
| DL 21 | 231.60 " |
| DLL 21 | 339.40 " |
| DM 21 | 201.10 " |

All-glass Tubes

50X1

5. UF 21 and UY 21 tubes were imported into Czechoslovakia in small quantities before 1945. They were not produced in Czechoslovakia until the end of 1950 and, most probably, not after this date, as there was no need for this type of tube.

Low-power Special Electronic Tubes

- In general, low-power special electronic tubes were imported from Philips, but the imports were small both in number of types and number of units.
- a. The following tubes were imported into Czechoslovakia between 1945 and 1948 and were also produced in Czechoslovakia

AX 50 EL 51

247.10 crowns 1,600.59 "



50X1

b. There were from three to five types of electronic tubes of the class of low voltage mercury rectifiers for higher currents. 50×1

They were Philips products imported mainly from 1945 to 1948 and were for industrial low-voltage rectifiers. the number of units imported. None were produced in Czechoslovakia. One of the types was 1069K, an industrial anode, and the second was a similar type to the 1069K but was equipped with three anodes (it was for alternate 3-phase current). This tube was for the Tesla Roznov plant for rectifiers produced there.

- c. Two or three types of phototubes with cesium cathode were imported from Philips between 1945 and 1948.

 the number of units imported. These tubes were for movie projectors. One of them carried the designation 3533.

 not know the designation of the remaining types.
- d. Picture tubes for electronic oscillograph and possibly (a few) as samples for television development.

About five types of these picture tubes were imported from Philips between 1945 and 1948. the number of 50X1 units.

Medium-Power Special Electronic Tubes -- High-Voltage Mercury Rectifiers

7. About three types of the Philips 3DG class were imported between 50X1 1945 and 1948. They were used for industrial high voltage rectifiers. One of them was DCG 9/20 which was used also by the Tesla Roznov plant in generators for high frequency heating. know the designation of the remaining types or the number of units imported.

Transmitter Tubes

- 3. a. TA 12/20, a Philips product, was imported until 1948, about four units yearly. The tube was used by the Tesla Roznov plant for high frequency generators. After 1948 the imports of this tub 50X1 stopped because it was replaced by the CAT 9 type, a Tesla 50X1
 - b. Some types of the Standard Electric products were imported between 1945 and 1948
 Prague-Vrsovice, Sarin 1948 and the building is presently used by the Tesla Roznov, National Enterprise, Elstroj Plant.) These tubes were used for old transmitters, also of Standard Electric production, in operation in Czechoslovakia, mainly for the Prague I transmitter (Liblice transmitter).

| 1. | Comment: The information given here, along with the information on Czechoslovak production of electronic tubes |
|-------|--|
| 50X1 | |
| 30X I | gives a complete picture of all the tubes of all kinds used in Czechoslovakia. |

2. Comment: The prices given are pre-currency reform prices; the present price equals that price divided by five.